

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/006789 A1

(51) International Patent Classification⁷: **H04Q 7/24**

(21) International Application Number:
PCT/KR2004/001586

(22) International Filing Date: 29 June 2004 (29.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0048004 14 July 2003 (14.07.2003) KR

(71) Applicant (for all designated States except US): SK
TELECOM CO., LTD. [KR/KR]; 99 Seolin-dong, Jon-
gro-gu, Seoul 110-728 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LEE, Jae-young
[KR/KR]; 106-1201 Hanyang Saetbyul Apt., Bisan-dong,
Dongan-gu, Anyang-shi, Kyunggi-do 431-050 (KR).

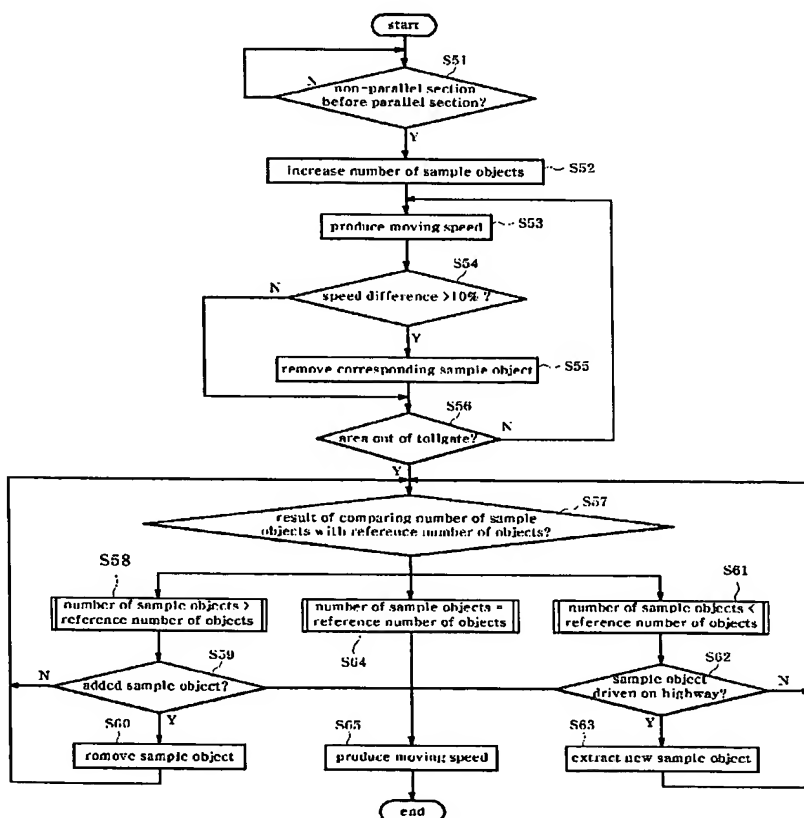
CHUNG, Chi-ik [KR/KR]; Donga Apt, Kwanak Dream
Town, Bongcheon 5-dong, Kwanak-gu, Seoul 151-055
(KR). JANG, Hee-sook [KR/KR]; 1-314 Mujigae Apt.,
Siheung 1-dong, Keumcheon-gu, Seoul 153-762 (KR).
LEE, Chung-hak [KR/KR]; B-301 Cheonrok Villa, 253-9
Neung-dong, Kwangjin-gu, Seoul 143-180 (KR).

(74) Agent: **AJU PATENT & LAW FIRM**; 12th Floor,
Poonglim Building, 823-1 Yeoksam-dong, Kangnam-gu,
Seoul 135-784 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: METHOD FOR OBTAINING TRAFFIC INFORMATION USING BILLING INFORMATION OF MOBILE TERMINAL



(57) Abstract: The present invention relates to a method for obtaining traffic information using billing information of a mobile terminal. The method can prevent crosstalk between a vehicle on a highway and a vehicle on a local road parallel to the highway and obtain correct traffic information associated with the highway, when obtaining information indicative of a road traffic state in real time by obtaining a unique number of the mobile terminal from the billing information and tracking a moving time of a corresponding mobile terminal between base stations where the mobile terminal attempts a telephone call on the highway.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*